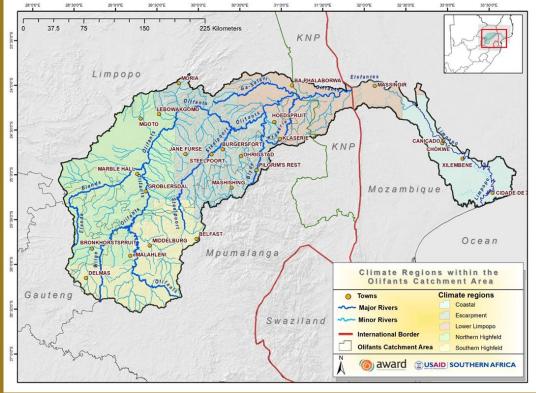


This flyer shares the results of a localised and nuanced analysis of historical trends and climate projections for the Olifants River Catchment summarised in the technical brief Historical trends and climate projections for climate regions in the Olifants River Catchment (by Dr Sharon Pollard and Dr Taryn Kong, 2018) based on the interpretation of the climate analysis An analysis of historical and projected climate for the Olifants River catchment based on delineation of homogeneous climate regions (December 2017) provided by the Climate System Analysis Group (CSAG) from the University of Cape Town (UCT).







The five climate regions were delineated based on historical rainfall and temperature data. Each climate region represents an area with similar seasonality, inter-annual variability and combination of both that is distinct from another climate region. Therefore, to determine a more accurate and contextualised record and vision of the climate of the catchment to inform decision-making, the historical climate trends (1979 to 2013) and projected climate changes (1960-2099) for each of the climate regions were analysed separately and then compared with each other.

Northern Highveld Climate Region   Mean annual 19°C   1/2 Mean daily max temp				
Number of day with max temp > 36°C   Number of days with max temp   Number of days with max temp > 36°C   Number of days with max temp   Number of days with temp > 36°C   Number of days with temp > 36°C   Number of days with temp > 36°C   Number of days with temp > Number of days with temp > 36°C   Number of	Northern Highveld Climate Region	Current characteristics	Historical trends	Climate projections
Escarpment Climate Region  Temperature (temp)  Mean annual 18°C  Amen daily max temp		Mean annual 19°C		
Climate Region  Temperature (temp)  Mean annual 18°C  PMean daily max temp  PMean daily max temp  PNumber of days with max temp > 36°C  Rainfall  Lower Limpopo Climate Region  Temperature (temp)  Mean annual 23°C  Rainfall  Mean annual 23°C  Rainfall  Mean annual 558mm  Mo change  Climate projections  Climate projections  Climate projections  Climate projections  Climate projections  PMean daily max temp  PMean daily max temp  PMean daily max temp  PMean daily minimum temp  Coastal Climate  Region  Current characteristics  Historical trends  Climate projections  Temperature (temp)  Mean annual 24°C  PMean daily minimum temp  PDaily maximum temp  PNumber of days with temp > 36°C  Rainfall  Mean annual 848mm  PTotal annual rainfall  PNumber of days with rain > 20 mm/day  Climate projections  Mostly no change	Rainfall	Mean annual 604mm	No change	Mostly no change
Climate Region   Current characteristics   Historical trends   Climate projections				
Temperature   Mean annual 818mm   No change   Mostly no change		Current characteristics	Historical trends	Climate projections
Lower Limpopo   Climate Region   Current characteristics   Historical trends   Climate Projections		Mean annual 18°C	↑Mean daily max temp	
Climate Region         Temperature (temp)       Mean annual 23°C       ↑Mean daily max temp ↑Number of days with max temp ↑Number of days with max temp > 36°C         Rainfall       Mean annual 558mm       No change       Mostly no change         Coastal Climate Region       Current characteristics       Historical trends       Climate projections         Temperature (temp)       Mean annual 24°C       ↑Mean daily minimum temp       ↑Daily maximum temp ↑Number of days with temp > 36°C         Rainfall       Mean annual 848mm       ↑Total annual rainfall ↑Number of days with rain > 20 mm/day       Mostly no change         Southern Highveld Climate Region       Current characteristics       Historical trends       Climate projections         Temperature       Mean annual 16°C       ↑Mean daily max temp       ↑Mean daily max temp	Rainfall	Mean annual 818mm	No change	Mostly no change
Climate Region         Temperature (temp)       Mean annual 23°C       ↑Mean daily max temp ↑Number of days with max temp ↑Number of days with max temp > 36°C         Rainfall       Mean annual 558mm       No change       Mostly no change         Coastal Climate Region       Current characteristics       Historical trends       Climate projections         Temperature (temp)       Mean annual 24°C       ↑Mean daily minimum temp       ↑Daily maximum temp ↑Number of days with temp > 36°C         Rainfall       Mean annual 848mm       ↑Total annual rainfall ↑Number of days with rain > 20 mm/day       Mostly no change         Southern Highveld Climate Region       Current characteristics       Historical trends       Climate projections         Temperature       Mean annual 16°C       ↑Mean daily max temp       ↑Mean daily max temp				
(temp)       ↑Mean daily minimum temp       ↑Number of days with max temp > 36°C         Rainfall       Mean annual 558mm       No change       Mostly no change         Coastal Climate Region       Current characteristics       Historical trends       Climate projections         Temperature (temp)       Mean annual 24°C       ↑Mean daily minimum temp       ↑Daily maximum temp       ↑Number of days with temp > 36°C         Rainfall       Mean annual 848mm       ↑Total annual rainfall       Mostly no change         Southern Highveld Climate Region       Current characteristics       Historical trends       Climate projections         Temperature       Mean annual 16°C       ↑Mean daily max temp       ↑Mean daily max temp		Current characteristics	Historical trends	Climate projections
Coastal Climate Region  Current characteristics  Climate projections  Temperature (temp)  Mean annual 24°C  Amean daily minimum temp  Amean daily minimum temp  Amean daily minimum temp  Amean daily minimum temp  Amean daily maximum temp  Amean daily minimum temp  Amean daily maximum temp  Amean daily ma		Mean annual 23°C		
Region  Current characteristics  Historical trends  Climate projections  Climate projections  Temperature (temp)  Mean annual 24°C  Painfall  Mean annual 848mm  Annual rainfall  Number of days with rain >20 mm/day  Mostly no change  Climate projections  Climate projections  Climate projections  Climate projections  Climate projections  Climate projections  Temperature  Mean annual 16°C  Amean daily max temp	Rainfall	Mean annual 558mm	No change	Mostly no change
Region  Current characteristics  Historical trends  Climate projections  Climate projections  Temperature (temp)  Mean annual 24°C  Painfall  Mean annual 848mm  Annual rainfall  Number of days with rain >20 mm/day  Mostly no change  Climate projections  Climate projections  Climate projections  Climate projections  Climate projections  Climate projections  Temperature  Mean annual 16°C  Amean daily max temp				
Total annual rainfall   Mean annual 848mm   Total annual rainfall   Mostly no change   Mostly no change		Current characteristics	Historical trends	Climate projections
↑ Number of days with rain > 20 mm/day  Southern Highveld Climate Region  Temperature Mean annual 16°C ↑ Mean daily max temp ↑ Mean daily max temp		Mean annual 24°C	↑Mean daily minimum temp	
Climate Region Current characteristics Historical trends Climate projections  Temperature Mean annual 16°C ↑Mean daily max temp ↑Mean daily max temp	Rainfall	Mean annual 848mm		Mostly no change
Climate Region Current characteristics Historical trends Climate projections  Temperature Mean annual 16°C ↑Mean daily max temp ↑Mean daily max temp				
		Current characteristics	Historical trends	Climate projections
		Mean annual 16°C	↑Mean daily max temp	
Rainfall Mean annual 718mm No change Mostly no change	Rainfall	Mean annual 718mm	No change	Mostly no change

This analysis was conducted as part of the Resilience in the Limpopo Basin Program - Olifants Catchment (RESILIM-O) project, which is funded by the United States Agency for International Development (USAID) under USAID/Southern Africa Resilience in the Limpopo Basin Program (RESILIM). The project is implemented by the Association for Water and Rural Development (AWARD) in collaboration with partners. AWARD contracted CSAG to perform the analysis.



Acknowledgements: Project Funding & Support

The USAID: RESILIM-O project is funded by the U.S. Agency for International Development under USAID/Southern Africa RESILIENCE IN THE LIMPOPO BASIN PROGRAM (RESILIM). The RESILIM-O project is implemented by the Association for Water and Rural Development (AWARD), in collaboration with partners. Cooperative Agreement nr AID-674-A-13-00008

